

- CLAIMS -

1.- A method for automatic regulation of a quantity of product deposited in a repetitive fashion by a deposition actuator (1), which deposition actuator (1) is associated with means (2) which enable to adjust the quantity of product deposited, characterised in that it consists :

- in determining automatically the quantity of product effectively deposited by the deposition actuator (1) during the deposition operation,
- in comparing automatically this quantity of product effectively deposited with the desired quantity of product to be deposited, and
- in case of difference between both values, in re-adjusting automatically the quantity of product deposited during subsequent deposition operations by acting upon said means of adjustment (2).

2.- A method according to claim 1, characterised in that it consists in determining the quantity of product effectively deposited by the deposition actuator (1) by measuring the volume of this quantity deposited.

3.- A method according to claim 2, characterised in that it consists in determining the quantity of product effectively deposited by the deposition actuator (1) by measuring the volume of this quantity deposited, after obtaining a record of the deposition relief of product.

4.- A method according to claim 2, characterised in that it consists in determining the quantity of product effectively deposited by the deposition actuator (1) by measuring the volume of this quantity deposited, after - obtaining a record of the deposition relief of product on its own, to form a reference, and - a record of the relief of both the product support/deposited product.

5.- A device for implementing the method according to any of the claims 1 to 4, characterised in that it includes :

- at least one deposition actuator (1) of the product,
- means (2) which enable to adjust the quantity of product deposited by said actuator (1),
- means (6) to determine the quantity of product deposited by said actuator (1),
- means (7) to compare the quantity of product deposited with the desired quantity of product to be deposited, and
- means (7) which enable to act upon said means of adjustment (2) of the actuator (1), to re-adjust automatically the quantity of product deposited during subsequent deposition operations, in case of difference noticed between the quantity of product effectively deposited and the desired quantity of product to be deposited.

6.- A device according to claim 5, characterised in that the means (6) to determine the quantity of product effectively deposited are composed of means for measuring the volume of this quantity deposited.

7.- A device according to claim 6, characterised in that the means (6) for measuring the volume of the quantity of product deposited comprise :

- means (10, 11) to record the deposition relief of product, and
- a data processing module (12) to define said volume.

8.- A device according to claim 6, characterised in that the means (6) for measuring the volume of the quantity of product deposited comprise - means to record the relief of both the product support/deposited product, - means to record the relief of the product support on its own, and - a data processing module to define said volume.

9.- A device according to any of the claims 7 or 8, characterised in that the relief recording means consist of at least two cameras (10).

10.- A device according to claim 9, characterised in that it includes additional means (11) to put in evidence the relief to be recorded.

11.- A device according to claim 10, characterised in that the means for putting the relief in evidence consist of a laser beam system (11).

12.- A device according to claim 11, characterised in that it includes a mobile laser beam system .

13.- A device according to claim 11, characterised in that it includes a fixed laser beam system (11) associated with means (14) enabling to generate a set of scores or a square ruling on the surface of the product (3) and/or of its support (4, 16).

14.- A product deposition installation including at least one device according to any of the claims 5 to 13.

15.- A product deposition installation according to claim 14, characterised in that it includes - a plurality of deposition actuators (1) provided above a conveyor system (5) to form product deposition rows directly on said conveyor system (5) or on reception supports (4, 16) placed on said conveyor system (5), and - means (10, 11) to record the deposition relief of product (3), arranged on a mobile cart (13) perpendicular to the feeding direction of said conveyor system (5) in order to record the deposition relief of product on the different lines formed.